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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/876,190	06/06/2001	J. William Whitehart	199-2062 (VGT 0179 PUS)	9108
7590	06/16/2005		EXAMINER	
Artz & Artz, P.C. 28333 Telegraph Road, Suite 250 Southfield, MI 48034			KNOWLIN, THUAN P	
			ART UNIT	PAPER NUMBER
			2642	
DATE MAILED: 06/16/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/876,190

Applicant(s)

WHIKEHART ET AL.

Examiner

Thjuan P. Knowlin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>06/06/01</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendment filed on January 13, 2005 has been entered. Claims 1, 3, and 6 have been amended. No claims have been cancelled. No claims have been added. Claims 1-8 are still pending in this application, with claim 1, 6, and 8 being independent.

### ***Claim Rejections - 35 USC § 102***

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Claxton et al (US 6,741,847).

4. In regards to claims 1 and 6, Claxton discloses a receiver (receiver 10 and receiver 60) and method for simultaneously processing multiple channels in a broadcast band (Abstract and col. 2 lines 13-20), said receiver comprising: at least one antenna (antenna 12) for receiving analog RF signals (col. 3 lines 39-47); a plurality of tunable bandpass filters (BPF 32), each filter for filtering said analog RF signals, each bandpass filter for tuning to a desired frequency signal, thereby defining multiple desired signals (col. 5 lines 29-52); a summer (summation 180) for summing said multiple desired signals into one summed signal (col. 9 lines 4-13); a digitizer (comparator 186) for digitizing said summed signal (col. 9 lines 14-29); and a digital tuner (digital sub-band

tuners (DSBT) 274) capable of simultaneously processing multiple desired signals from said digitized signal (col. 11 lines 34-47).

5. In regards to claims 2 and 7, Claxton discloses the receiver, wherein at least two tunable bandpass filters in said plurality of tunable bandpass filters are tuned to the same desired frequency and combine to draw maximum power for reception of said desired frequency (col. 2 lines 13-27, col. 3-4 lines 63-7, and col. 11 lines 49-63).

6. In regards to claim 3, Claxton discloses the receiver, wherein at least one tunable bandpass filter in said plurality of tunable bandpass filters is tuned to a first desired frequency and another of said tunable bandpass filters in said plurality of tunable bandpass filters is tuned to a second desired frequency that is different than said first desired frequency for simultaneous reception of at least two different desired frequencies (col. 1-2 lines 64-10 and col. 3 lines 25-47).

7. In regards to claim 4, Claxton discloses the receiver, further comprising an automatic gain controller (resistor R3 and capacitor C1) and an amplifier (amplifier 82) at the respective output of each of said plurality of bandpass filters (col. 7 lines 23-33 and col. 7 lines 49-54).

8. In regards to claims 5 and 8, Claxton discloses the receiver, further comprising at least one tunable bandpass filter in said plurality of said tunable bandpass filters being tuned to a first desired frequency and another of said tunable bandpass filters in said plurality of said tunable bandpass filters being tuned to a second undesired frequency (col. 1-2 lines 64-10 and col. 3 lines 25-47); and wherein said automatic gain controller and amplifier at said output of said tunable bandpass filters that is tuned to said

undesired frequency is set at a minimum gain for absorbing said undesired frequency and providing additional receiving power for said first desired frequency (col. 7 lines 23-33 and col. 7 lines 49-54).

### ***Response to Arguments***

9. Applicant's arguments filed 01/13/05 have been fully considered but they are not persuasive. Applicant argues that the Claxton reference does not require summing only desired signals, downconverts all high frequency signals, including desired and undesired signals, to an intermediate frequency, or baseband signal. By reciting in the claims and arguing that only the desired signals are summed, does not make the present invention patentable over the Claxton reference. As stated by Applicant, the Claxton reference sums both desired and undesired signals, which means that a signal could be summed automatically or it could be summed only when wanted/desired. Furthermore, the Claxton reference discloses all of claims 1 and 6 limitations, such as a receiver (receiver 10 and receiver 60) and method for simultaneously processing multiple channels in a broadcast band (Abstract and col. 2 lines 13-20), said receiver comprising: at least one antenna (antenna 12) for receiving analog RF signals (col. 3 lines 39-47); a plurality of tunable bandpass filters (BPF 32), each filter for filtering said analog RF signals, each bandpass filter for tuning to a desired frequency signal, thereby defining multiple desired signals (col. 5 lines 29-52); a summer (summation 180) for summing said multiple desired signals into one summed signal (col. 9 lines 4-13); a digitizer (comparator 186) for digitizing said summed signal (col. 9 lines 14-29); and a

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digital tuner (digital sub-band tuners (DSBT) 274) capable of simultaneously processing multiple desired signals from said digitized signal (col. 11 lines 34-47).

### ***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

11. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

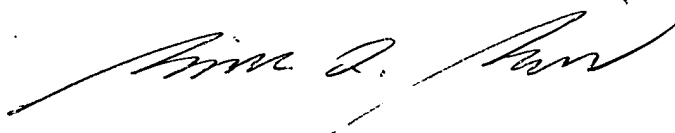
12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan P. Knowlin whose telephone number is (571) 272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thjuan P. Knowlin

A handwritten signature in black ink, appearing to read "Bing Q. Bui", with a long horizontal stroke extending to the left.

**BING Q. BUI**  
**PRIMARY EXAMINER**